MELLIDFAX 7		ANG
4	Approved For Release 2006/02/27 : CIA-RDP82-00457R0	
	CLASSIFICATION SEONET/CONTROL-US OFFICIALS CENTRAL INTELLIGENCE AGENCY	REPORT NO. 25X
Ý	information report	CD NO.
COUNTRŸ	USSR (Ceucasus) GONFIDENTIAL	DATE DISTR 19 Oct. 1949
K1 SUBJECT	and the second s	NO. OF PAGES 6
1	Return to CIA Library	NO. OF ENCL
		SUPPLEMENT TO 25X REPORT NO.
0, 5. C., 21	EIT CONTAINS INFORMATION AFFECTING THE INSTIGNAL DEFUNDS. TED STATES CHTMIN THE CLEANING OF THE ESPICANCE ACT SO HAND 32, ARE ARREPIDED. IN TRANSCLUSION OR THE ECVILATION TENTES IN ANY DIARNES TO AN CHARGE FOR THE FOREIGN OF THE FO	ALUATED INFORMATION
		25X
		· 20
	1. Location: The Airframe Plant was locate edge of the town of TBILISI (44°53° E/41° north of the Kura River.	ed on the southeastern 40, N), immediately
	2. Exact data relative to the plant install structed buildings will be forwarded la	lations and newly con- ter.
	3. Machinery: The plant was equipped with no dismantled German equipment was obse	Soviet and US machiner
	4. Work force: 2,500 to 3,000 workers in cluding 50 percent women. There was: a	the day shift, in- lso a much smaller
	night shift. There were 16.17 holldays leading engineers were from the Ural di of the leading personnel spoke German. not employed in the plant. **	
	·	ent No. S
	│ □ De	classified 25X1
	Auth .	Changed To: IS 3 (5) HR 70-2
TATE	CLASSIFICATION SECRET/CONTROL-US OFFICIAL.	S ONLY
ARNY	1877	

VUNTIUEN IAL

VALUE SCALES OF EACH OF THE STATE OF THE

CENTRAL INTELLIGENCE AGENCY

- 2 -

5. Production:

- a. The production of conventional fighters was discontinued in mid-1947. (in-line engine, two-bladed propeller; airframe same as that of turbo-jet fighter, see Annex 1).***
- b. The preparations for the production of a turbo-jet fighter were begun in early 1947.
- (1) Original Junkers turbo-jet power plants arrived at this time. Soviet-produced turbo-jet power plants (allegedly copies of the Junkers models) arrived by rail from an unidentified plant beginning early in 1948.
- (2) It was not ascertained when the first turbo-jet aircraft was flown. To information is available as to whether, in addition to the observed types (see Annexes 1 and 2), still other experimental models were built.
- (3) Beginning in early 1948, a nonthly output of 150 to 200 turbo-jet aircraft was observed. Ø
- (4) A series of 300 to 400 single-seat fighters was first produced (see Annex 1); these aircraft were replaced by a two-scater version of the same type (see 4nnex 2).
- the armement of individual experimental models of the single-seat fighter consisted of four machine guns of an estimated caliber of the Garman type 17 machine gun and of two cunnon of unknown caliber. (xxx)
- (6) Both types of sircraft were equipped with radio sets located aft of the pilot's seat; but the single-seat version had no antenna rod. (xx)
- (7) Bomb release slips, rocket rails, or devices for the installations of cameras were not seen.
- (3) Fuel tanks were mounted in the wings, a large fuel tank was located aft of the radio set.

5. Aircraft testing:

a. About 10 percent of the produced aircraft were flighttested and their armanent was adjusted at the factory field located about three miles east of the plant. host of the manufectured aircraft were loaded on railroad oars without being subjected to acceptance flights. 99

b. Take-off ground run: about ten seconds; landing speed: about 130 mph; speed in level flight: 370 to 430 mph at an altitude of 2,000 to 2,500 feet. It seemed as if the aircraft were not flown at full power. Flying at maximum engine performance, at an altitude of 350 feet, the plane would soom after a short push on the stick, realing an altitude of about 3,300 feet at an angle of climb of 60° after performing from four to eight rolls. The planes were very maneuverable and flew surprisingly narrow curves. Both types of sircraft were, to a surprising degree, insensitive to cross winds, which could easily be observed during frequent storms. Indurance was said to have been one and a half hours; the test flights nover exceeded 30 minutes,

Chox enteres sources of the outher

Approved For Release 2006/02/27: CIA-RDP82-00457R003500630005-3

CONFIDENTIAL

25X1

SECRET/SS. TROLIS OFFICEADS	ÖTY	,
CENTRAL INDELLIGENCE AGENCY		

- 5 -

c. The starting and stopping of the turbo-jet entine could not be observed from a sufficiently close vantage point.

d. The runway of the airfield was at least 5,000 feet long; the field had three hangars (total capacity about 25X1 ten planes) and an administration building. An engineer unit arrived in early 1948. As far as could be observed, this unit widened the runway

e. A commercial pakota plane rlying on the 1.0530d-THILIST line landed and took off every day.

7. disassembly and Shippin; of Aircraft:

a. The produced direcart, some of which were flight-tested, were disassembled by a special detail (four or five well trained and equipped men) at the leading ramp. All directart parts were packed in solid boxes manufactured in the plant.

b. The wings, tail assembly, power plant, and radio sets were disassembled. No conservation measures were observed. It took from two to three hours to disassemble one plane. The disassembled planes were snipped by rail in trains of about 30 cars, cash of which was leaded with one box. The trains left in the direction of BAKU.

3. Detailed Observations:

25X1

a. The wasts ratio in the lant was very high, particularly in the tail unit section. It is possible that the wasts ratio was so high only during the pariod when the new experimental aircraft models were produced.(x) The scrap was melted and cast into aluminium injots in the factory foundry. We details are available concerning the further atilization of these injots.

b. Jork was performed on an assembly line basis; modeled after the method formerly used in Jermany ("Taktverfahren"-timed automatic advance of assembly line), 25 to 30 fuselages were simultaneously being assembled on the line. The final assembly line was located between the fuselage and airframe assembly lines.

- c. There was first-class flush-riveting on outer skin; no creeks or dents were observed; after-treatment with smootners was not necessary. After being varnished, the aircraft were painted bluish-green. (x)
- d. The power plant was suspended at four points. (xx)
- e. There were difficulties in the refining treatment of materials. In early 1943 new amoraling and refinement baths were installed. (x)
- f. The chapin, of enest metal also presented problems, but those were evercome. (x)

Value out 301 software of the

CONFIDENTIAL

SURBLYCOLTRUCTION OFFICIALS ONLY	25X1
CENTRAL INTELLIGENCE AGENCY	
es of the	
g. The designing bureaus were well and modernly equipped. Technical literature and the most modern working material from all countries were available.	0. * 34
9. Reruonal Experiences:	
	25X1
	25X1
10. Other Observations:	
Searchlight practice and both AAA and rtillery firing wer frequently observed in the vicinity of the airfield. No details are available.	'8
11. In a 30 Zone processing camp that unverground hangars were located at the arm field near RUSAVI. The eigeraft had arrived there by response	25X1
Joanent:	25X1
(2 500 to	25X1
** b. The reported labor force of the day shirt (2,500 to 3,000) agrees with the bulk of available information	
covering the same period of observation.	
full day shirt, only partial shifts with a considerably shaller work force were normed in some plant cactions.	the
the arrival, in January 1947, of tecanical personnel from former stebel Aircraft Flant or of other desorted Berman	
personnel was not observed; no these wore possibly transferred to some their plant.	
was and amount one excessiont in all resorts received	on
*** c. The only unanimous statement in all reports received the conventional fighter proviously produced in the plant in that the londing lear was retracted cidowise into the	on
*** c. The only unanimous statement in all reports received the conventional fighter proviously produced in the plant in that the landing lear was retracted ridowise into the wings, a feature	on 25X1
*** c. The only unanimous statement in all reports received the conventional fighter proviously produced in the plant in that the landing lear was retracted cidowise into the distance of the produced of the state	on 25X1 ာ့ဧd
*** c. The only unanimous statement in all reports received the conventional fighter previously produced in the plant in that the landing car was retracted ellowise into the wings, a feature that the previously existing uncertainty as to whether this type of aircraft was equipment to the product of the publisher of the can be explained only by the	on 25X1 ာ့ed

25X1

25X1

25X1 25X1

25X1

CONFIDENTA

YELV CLASSIC CONTROL OF THE CONTROL	25X1
CENTRAL INTELLIGENCE AGENCY	

25X1

25X1

25X1

25X1

	us 5 us	
· ·	Ysk-7, or the Yak-11 trainer, which were equipped with both the Ash -21 radial engines and in-line engines. (The two-bladed propeller was particularly stressed.) then the production of this conventional fighter alreaft was definitely suspended cannot be ascertained from the reports received;	25X1
		25X1
ø [d. The information on the output of the plant explains, to vertain extent the previously obtained contradictory information on the actual output and the plant capacity. the production of the single-seat Yak-15 with standard landing year and or the two-seat trainer type	
	equipped with nose wheel, which replaced the single-seat	
	type (production: 500 to 400). The utilization of the two-seat version as a night fighter was considered in-	
	possible, since it was not provided with dipoles, mounti	ಚಿತ್ರದ
	for dipples, or auxiliary vanks.	_
øø	e. The statement that only two or three planes of the daily production were flight tested at the factory sir-	
4	field whereas, the bulk of the produced aircraft were shi away in boxes without any prior acceptance flights, was a	ped
	in a very definite mannernoticed the procedure	25X1
	with the westest sprorise 990	ut
	it. They confirmed his observation. The same procedure was previously resorted for the puriod from June 1946 to rebruary 1947.	25X1
ØØØ	f. No definite information is available whether these	
	aircraft were stockpiled; on the one hand, no conser-	
	ration measures were observed; on the other hand, the return of empty transport boxes was not noticed througho	25X1
	the reported period. This question may possibly be clar	<u>i</u>
	field by the statements made by a Jerman Pd	
	lar	
	boxes here unloaded near RUS MAVI, where underground air-	
	craft depots are allegedly located. The atockpiling of such fighter trainers over a prolonged period is conside	mad
	Liprobable.	rea
	E. TO LO DO DT G :	25X1
(x)	g. The statements on the high serve ratio and the first class flush riveting seems to be contradictory. Asked f	••• •••
	an explanation of this. cracks freque	nt-
	ly occurred in the chaping of the prelominantly forman s	noet
	metal material (surman control amaps on the bluets) be-	
		n
	this case, parts which could well have been utilized aft	Cr
	some minor treatment were frequently occapped 1.000 directly occapied in the emaping of never elects were overcome.	e
	in early 1948 through the acquisition of meaning bools a	nJ
	new abmealing and reflaing boths, including an anodic bo	th.

The attached two scatches were discussed in detail. Instited that the suspension of the power plant and the unfaired tiltable nose insel set forward of the air intake (see Annex 2) were correctly observed by aim, but this statement is believed to be in error because the presence of cowlings for the cutroctable nose wheel can be essented with corbility, since there would otherwise be a major disturbance in the air flow during the extension or retraction of the landing geore and the absence of an

ometime on the simil-spat fighter seems questionable. Approved For Release 2006/02/27 : CIA-RDP82-00457R003500630005-3: 1. Y

Approved For Release 2006/02/27 : CIA-RDP82-00457R003500630005-3

pagkad/dominact/do onstititus opak:

25X1

CENTRAL INTELLIGENCE AGENCY

... 6 as

25X1

(xxx) i. The arabment with four machine guns and two cannon seems to be too heavy for a trainer type.

According to most former reports, only two machine guns and two cannon were observed.

1. Single-Seat Turbo-Jet Fighter Observed at the Factory Field Three Liles East of Aircraft Flant No. 31 in TBILISI.

2. Two-seat Purbo-Jot Aircraft Observed at the P ctory Field Three Liles Last of Aircraft Flant No.31 in TB[LISI.

Page Serberg Collon Process Con